# REFERENCES

Aberg, B., Ekman, L., Falk, R., Greitx, U., Persson, G., and Snihs, J. (1969) Metabolism of Methyl Mercury ($^{203}$Hg) Compounds in Man. *Arch Environ. Health* 19:453-484.

Albro, P.W. and Fishbein, L. (1972) Intestinal Absorption of Polychlorinated Biphenyls in Rats. *Bull. Environ. Contam. Toxicology* 8:26-31.

Agency for Toxic Substances and Disease Registry (1994a) Toxicological Profile for Chlorodibenzofurans. U.S. Department of Health & Human Services, Public Health Service.

Agency for Toxic Substances and Disease Registry (1994b) Toxicological Profile for Zinc. U.S. Department of Health & Human Services, Public Health Service.

Agency for Toxic Substances and Disease Registry (1999) Toxicological Profile for Mercury. U.S. Department of Health & Human Services, Public Health Service.

Andelman, J.B. (1988) Total Exposure to Volatile Organic Compounds in Potable Water. In: Ram, N.; Christmen, R., Cantor, K., eds. Significance and Treatment of Volatile Organic Compounds in Water Supplies. Chelsea, MI: Lewis Publishers, Inc.

Bettley, F.R. and O'Shea, J.A. (1975) The Absorption of Arsenic and its Relation to Carcinoma. *Brit. J. Dermatol*. 92:563-568.

Bunge, A.L. and Cleek, R.L. (1995) A New Method for Estimating Dermal Absorption from Chemical Exposure: 2. Effect of Molecular Weight and Octanol-water Partitioning. *Pharm. Res.* 12:88-95.

Bunge, A. L. and McDougal, J. N. (1998) Dermal Uptake. "Exposure to Contaminants in Drinking Water." Estimating Uptake through the Skin and by Inhalation. S. Olin, ed. Boca Raton, FL, CRC Press.

Chang, L.H. (1943) The Fecal Excretion of Polycyclic Hydrocarbons Following Their Administration to the Rat. *J. Biochemistry* 151:93-99.

Cleek, R.L. and Bunge, A.L. (1993) A New Method for Estimating Dermal Absorption from Chemical Exposure. 1. General Approach. *Pharm. Res.* 10: 497-506.

Conklin, A.W., Skinner, S.C., Felten, T.L., and Sanders, C.L. (1982) Clearance and Distribution of Intratracheally Instilled Vanadium Compounds in the Rat. *Toxicol. Lett.* 11:199-203.

Cuddihy, R.G. and Griffith, W.C. (1972) A Biological Model Describing Tissue Distribution and Whole-body Retention of Barium and Lanthanum in Beagle Dogs after Inhalation and Gavage. *Health Phys*. 23:621-633.

Davidsson, L., Cederblad, A., Lonnerdal, B. and Sandstrom, B. (1989) Manganese Retention in Man: a Method for Estimating Manganese Absorption in Man. *Am. J. Clin. Nutr.* 49: 170-179.

Donaldson, R.M. and Barreras, R.F. (1996) Intestinal Absorption of Trace Quantities of Chromium. *J. Lab. Clin. Med*. 68:484-493.

# REFERENCES (continued)

Dowdy, D., McKone, T.E., and Hsieh, D.P.H. (1996) The Use of the Molecular Connectivity Index for Estimating Biotransfer Factors. *Environmental Science and Technology* 30, 984-989.

Draper, N. R.; Smith, H. (1998) Applied Regression Analysis, 3rd edition. John Wiley & Sons. New York.

Duff, R.M. and Kissel, J.C. (1996) Effect of Soil Loading on Dermal Absorption Efficiency from Contaminated Soils. *J. Tox. and Environ. Health* 48:93-106.

Elakhovskaya, N.P. (1972) The Metabolism of Nickel Entering the Organism with Water. (Russian translation) *Gig Sanit* 6:20-22.

Ewing, A.D., Kadry, A.M., and Dorough, H.W. (1985) Comparative Disposition and Elimination of Chlordane in Rats and Mice. *Toxicol. Lett.* 26:233-239.

Farooqui, M.Y.H and Ahmed, A.E. (1982) Molecular Interaction of Acrylonitrile and Potassium Cyanide with Rat Blood. *Chem. Biol. Interact*. 38:145-159.

Flynn, G. L. (1990) Physicochemical Determinates of Skin Absorption. In T. R. Gerrity and C. J. Henry, eds. Principles of Route-to-Route Extrapolation for Risk Assessment, Elsevier, New York p. 93-127.

Fries, G.S. and Marrow, G.F. (1975) Retention and Excretion of 2,3,7,8 Tetrachlorodibenzo-p- Dioxin by Rats. *J. Agric. Food Chem.* 23:265-269.

Furchner, J.E., Richmond, C.R., and Drake, G.A. (1968) Comparative Metabolism of Radionuclides in Mammals-IV. Retention of Silver-110m in the Mouse, Rat, Monkey, and Dog. *Health Phys.* 6:505-14.

Gerity, T.R. and Henry, C.J. (1990) Principles of Route-to-Route Extrapolation for Risk Assessment. Amsterdam: Elsevier Publishing.

Hecht, S.S., Grabowski, W., and Groth, K. (1979) Analysis of Faeces for Benzo[a]pyrene after Consumption of Charcoal-broiled Beef by Rats and Humans. *Cosmet. Toxicology* 17:223-227.

Holmes, K.K. Jr., Shirai, J.H., Richter, K.Y., and Kissel, J. C. (1999) Field Measurement of Dermal Soil Loadings in Occupational and Recreational Activities. *Environmental Research* 80:148-157.

Hostynek, J.J., Hinz, R.S, Lorence, C.R, and Guy, R.H. (1998) "Human Skin Penetration by Metal Compounds." In M.S. Roberts and K.A. Walters, eds. Dermal Absorption and Toxicity Assessment, Marcel Dekker, Inc., New York.

IRIS-Integrated Risk Information System. (2000) U.S. EPA.

Jo, W.K., Weisel, C.P., and Lioy, P.J. (1990) Chloroform Exposure and Body Burden from Showering with Chlorinated Tap Water. *Risk Analysis* 10, 575-580.

Kasting, G.B., Smith, R.L., and Cooper, F.R. (1987) "Effect of Lipid Solubility and Molecular Size on Percutaneous Absorption." *Pharmacol Skin* 1:138-153.

## REFERENCES (continued)

# REFERENCES (continued)

Kasting, G.B. and Robinson, P.J. (1993) Can We Assign an Upper Limit to Skin Permeability? *Pharm. Res* 10: 930-93.

Keim, K.S., Holloway, C.L., and Hebsted, M. (1987) Absorption of Chromium as Affected by Wheat Bran. *Cereal Chem.* 64: 352-355.

Keller, W. and Yeary, R. (1980) A Comparison of the Effects of Mineral Oil, Vegetable Oil, and Sodium Sulfate on the Intestinal Absorption of DDT in Rodents. *Clin. Toxicol*. 16:223-231.

Kissel, J., Richter, K.Y., and Fenske, R.A. (1996) Field Measurement of Dermal Soil Loading Attributed to Various Activities: Implications for Exposure Assessment. *Risk Analysis* 16:115-125.

Kissel, J., Shirai, J.H., Richter, K.Y., and Fenske, R.A. (1998) Investigation of Dermal Contact with Soil in Controlled Trials. *J. Soil Contamination* 7:737-752.

Knopp, D. and Schiller, F. (1992) Oral and Dermal Application of 2,4-Dichlorophenoxyacetic Acid Sodium and Dimethylamine Salts to Male Rats: Investigations on Absorption and Excretion as Well as Induction of Hepatic Mixed-function Oxidase Activities. *Arch Toxicol*. 66:170-174.

Korte, F. (1978) Ecotoxicologic Profile Analysis. *Chemisphere* 1:79-102.

Leahy, D. E. (1990) Use of QSAR's to Predict Percutaneous Absorption. Prediction of Percutaneous Penetration, R.C. Scott, R.H. Guy and J. Hadgraft (eds.), IBC Technical Services Ltd, London, p.242-251.

Lepow, M.L., Bruckman, L., Gillette, M., Markowitz, S., Robino, R., and Kapish, J. (1975) Investigations into Sources of Lead in the Environment of Urban Children. *Environ. Res.* 10:415-426.

Lie, R., Thomas, R.G., and Scot, J.K. (1960) The Distribution and Excretion of Thallium$^{204}$ in the Rat Suggested MPCs and a Bioassay Procedure. *Health Phys*. 2: 334-340.

Mackenzie, R.D., Anwar, R.A., Byerrum, R.U., and Hoppert, C.A. (1959) Absorption and Distribution of $Cr^{51}$ in the Albino Rat. *Arch. Biochem. Biophys*. 79:200-205.

Maddy, K.T., Wang, R.G., and Winter, C.K. (1983) Dermal Exposure Monitoring of Mixers, Loaders and Applicators of Pesticides in California. Workers Health and Safety Unit, Report HS-1069. California Department of Food and Agriculture, Sacramento, California.

Mandel, J. (1982) Use of the Singular Value Decomposition in Regression Analysis. *The American Statistician*, 36:15-24.

Mandel, J. (1985) The Regression Analysis of Collinear Data. *Journal of Research of the National Bureau of Standards*, 90(6):465-478.

McKone, T.E. and Howd, R.A. (1992) Estimating Dermal Uptake of Nonionic Organic Chemicals from Water and Soil: Part 1, Unified Fugacity-Based Models for Risk Assessments. *Risk Analysis*, 12, 543- 557.

# REFERENCES (continued)

McKone, T.E. (1993) Linking a PBPK Model for Chloroform with Measured Breath Concentrations in Showers: Implications for Dermal Exposure Models. *Journal of Exposure Analysis and Environmental Epidemiology* 3, 339-365.

Meerman J.H., Sterenborg, H.M., and Mulder G.J. (1983) Use of Pentachlorophenol as Long-term Inhibitor of Sulfation of Phenols and Hydroaximic Acids in the Rat In-vivo. *Biochem. Pharmacol*. 32:1587-1593.

Muhlebach, S. (1981) Pharmacokinetics in rats of 2,4,5,2,4,5 Hexachlorobiphenyl and Unmetabolizable Lipophilic Model Compounds. *Xenobiotica* 11:249-257.

Ohno, Y., Kawanishi, T., and Takahashi, A. (1986) Comparisons of the Toxicokinetic Parameters in Rats Determined for Low and High Dose gamma-Chlordane. *J. Toxicol. Sci*. 11:111-124.

Pelletier, O., Ritter, L., and Somers, C.J. (1989) Disposition of 2,4-Dichlorophenoxyacetic Acid Dimethylamine by Fischer 344 Rats Dosed Orally and Dermally. *J Toxicol Environ Health* 28: 221-234.

Piper, W.N. (1973) Excretion and Tissue Distribution of 2,3,7,8 Tetrachlorodibenzo -p-dioxin in the Rat. *Environ. Health Perspect.* 5:241-244.

Pirot, F., Kalia, Y.N., Stinchcomb, A.L., Keating, G., Bunge, A., Guy, R.H. (1997) Characterization of the Permeability Barrier of Human Skin In-vivo. *Proc. Natl. Acad. Sci.,USA* 94:1562-1567.

Potts, R.O. and Guy, R.H. (1992) Predicting Skin Permeability. *Pharm. Res.* 9:663-669.

Reddy, M.B., Guy, R.H., Bunge, A.L. (2000) *Does Epidermal Turnover Reduce Percutaneous Penetration? Pharm. Res.* 17:1414-1419.

Reeves, A.L. (1965) The Absorption of Beryllium from the Gastrointestinal Tract. *Arch Environ. Health* 11:209-214.

Roels, H.A., Buchet, J.P., Lauwerys, R.R., Bruaux, P., Claeys-Thoreau, F., Lafontaine, A., and Verduyn, G. (1980) Exposure to Lead by the Oral and the Pulmonary Routes of Children Living in the Vicinity of a Primary Lead Smelter. *Environ. Res*. 22:81-94.

Rose, J.Q., Ramsey, J.C., Wentzler, T.H., Hummel, R.A., and Gehring, P.J. (1976) The Fate of 2,3,7,8 Tetrachlorodibenzo-p-dioxin Following Single and Repeated Oral Doses to the Rat. *Toxicol. Appl. Pharmacol.* 36:209-226.

Ruoff, W. (1995) Relative Bioavailability of Manganese Ingested in Food or Water. Proceedings Workshop on the Bioavailability and Oral Toxicity of Manganese. U.S. EPA-ECAO, Cincinnati, OH.

Sayato, Y., Nakamuro, K., Matsui, S., and Ando, M. (1980) Metabolic Fate of Chromium Compounds. I. Comparative Behavior of Chromium in Rat Administered with $Na_2\ ^{51}CrO_4$ and $^{51}CrCl_3$. *J. Pharm. Dyn.* 3: 17-23.

Tanabe, S. (1981) Absorption Efficiencies and Biological Half-life of Individuals Chlorobiphenyls in Rats Treated

## REFERENCES (continued)

with Kanechlor Products. *Agric. Biol. Chem*. 45:717-726.

# REFERENCES (continued)

Taylor, D.M., Bligh, P.H., and Duggan, M.H. (1962) The Absorption of Calcium, Strontium, Barium, and Radium from the Gastrointestinal Tract of the Rat. *Biochem. J.* 83:25-29.

U.S. EPA. (1989) *Risk Assessment Guidance for Superfund, Volume I, Human Health Evaluation Manual (Part A)*. Interim Final EPA/540/1-89/002. Washington, DC.

U.S. EPA. (1992a) *Dermal Exposure Assessment: Principles and Applications.* Office of Health and Environmental Assessment. EPA/600/6-88/005Cc.

U.S. EPA. (1992b) *Memorandum: Guidance on Risk Characterization for Risk Managers and Risk Assessors*. From F. Henry Habicht II, Deputy Administrator, U.S. EPA, Washington, DC.

U.S. EPA. (1995a) *Policy for Risk Characterization*. From Carol Browner, Administrator, U.S. EPA, Washington, DC.

U.S. EPA. (1995b) Groundwater Sampling Workshop - A Workshop Summary, Dallas, TX, November 30-December 2, 1993. EPA/600/R-94/205, NTIS PB 95-193249, 126pp.

U.S. EPA. (1996a) Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures. Office of Research and Development and Office of Solid Waste and Emergency Response. EPA/540/S-95/504.

U.S. EPA. (1996b) Soil Screening Guidance: Technical Background Document. EPA/540/R-95/128.

U.S. EPA. (1997a) Exposure Factors Handbook. EPA/600/P-95/002F.

U.S. EPA. (1997b) *Policy for Use of Probabilistic Analysis in Risk Assessment*. From Fred Hansen, Deputy Administrator, Washington, DC.

Vecchia, B.E. (1997) "Estimating the Dermally Absorbed Dose From Chemical Exposure: Data Analysis, Parameter Estimation, and Sensitivity to Parameter Uncertainties". M.S. Thesis, Colorado School of Mines, Golden, Colorado.

Waitz, J.A., Ober, R.E., Meisenhelder, J.E., and Thompson, P.E. (1965) Physiological Disposition of Antimony after Administration of $^{124}$Sb-labeled Tartar Emetic to Rats, Mice and Monkeys, and the Effects of tris (p-aminophenyl) Carbonium Pamoate on this Distribution. *Bull. World Health Organization* 33:537-546.

Wester, R.C., Maibach, H.I., Bucks, D.A.W., Sedik, L., Melendres, J., Laio, C.L., and DeZio, S. (1990) Percutaneous Absorption of [14C]DDT and [14C]Benzo(a)pyrene from Soil. *Fund. Appl. Toxicol.* 15:510-516.

Wester, R.C., Maibach, H.I., Sedik, L., Melendres, J., DeZio, S., and Wade, M. (1992a) In-vitro Percutaneous Absorption of Cadmium from Water and Soil into Human Skin. *Fund. Appl. Toxicol.* 19:1-5.

Wester, R.C., Maibach, H.I., Sedik, L., Melendres, J., Laio, C.L., and DeZio, S. (1992b) Percutaneous Absorption of [14C]Chlordane from Soil. *J. Toxicol. Environ. Health* 35:269-277.

Wester, R.C., Maibach, H.I., Sedik, L., Melendres, J., and Wade, M. (1993a) In-vivo and In-vitro Percutaneous

# REFERENCES (continued)

Absorption and Skin Decontamination of Arsenic from Water and Soil. *Fund. Appl. Toxicol.* 20:336-340.

Wester, R.C., Maibach, H.I., Sedik, L., Melendres, J., and Wade, M. (1993b) Percutaneous Absorption of PCBs from Soil: In-vivo Rhesus Monkey, In-vitro Human Skin, and Binding to Powered Human Stratum Corneum. *J. Toxicol. Environ. Health* 39:375-382.

Wester, R.C., Maibach, H.I., Sedik, L., Melendres, J., Wade, M, and DeZio, S. (1993c) Percutaneous Absorption of Pentachlorophenol from Soil. *Fund. Appl. Toxicology* 20: 68-71.

Wester, R.C., Melendres, J., Logan, F., Hui, X. , and Maibach, H.I. (1996) Percutaneous Absorption of 2,4-Dichlorophenoxyacetic Acid from Soil with Respect to the Soil Load and Skin Contact Time: In-vivo Absorption in Rhesus Monkey and in Vitro Absorption in Human Skin. *J. Toxicol. Environ. Health* 47:335-344.

Wilschut, A., ten Berge, W.F., Robinson, P.J. , and McKone, T.E. (1995) Estimating Skin Permeation—The Validation of Five Mathematical Skin Permeation Models. *Chemosphere* 30, 1275-1296.

Yang, J.J., Roy, T.A., Krueger, A.J., Neil, W., and Mackerer, C.R. (1989) In-vitro and In-vivo Percutaneous Absorption of Benzo[a]pyrene from Petroleum Crude-Fortified Soil in the Rat. *Bull. Environ. Toxicol.* 43:207-214.

Young, V.R., Nahapetian, A., and Janghorbani, M. (1982) Selenium Bioavailability with Reference to Human Nutrition. *Am. J. Clin. Nutr.* 35: 1076-1088.